

CLAIMS

1. In a substantially non-spinning guided missile having a rate of spin which is insufficient to form imaging for high-speed accurate fuzing, a passive-infrared-imaging fuze comprising at least one set of body-fixed wide-angle optics providing at least forward hemisphere coverage, a multi-element detector array and a microprocessor for image and data processing, aim-point selection and fuzing.

2. A fuze as recited in claim 1 wherein said fuzing is skewed-cone fuzing.

3. A fuze as recited in claim 2 wherein the skewed-cone having a generatrix which is the vector sum of missile velocity, warhead velocity, and the negative of target velocity.

7. A fuze as recited in claim 1, further comprising means for miss direction prediction and directional-warhead aiming.

8. A fuze as recited in claim 2, further comprising means for miss direction prediction and directional-warhead aiming.

9. A fuze as recited in claim 3, further comprising means for miss direction prediction and directional-warhead aiming.

11. In a substantially non-spinning rocket having a rate of spin which is insufficient to form imaging for high-speed accurate fuzing, a passive-infrared-imaging fuze comprising at least one set of body-fixed wide-angle optics providing at least forward hemisphere coverage, a multi-element detector array and a microprocessor for image and data processing, aim-point selection and fuzing.

12. A fuze as recited in claim 11 wherein said fuzing is skewed-cone fuzing..

13. A fuze as recited in claim 12, the skewed-cone having a generatrix which is the vector sum of rocket velocity, warhead velocity, and the negative of target velocity.

17. A fuze as recited in claim 11, further comprising means for miss direction prediction and directional-warhead aiming.

18. A fuze as recited in claim 12, further comprising means for miss direction prediction and directional-warhead aiming.

19. A fuze as recited in claim 13, further comprising means for miss direction prediction and directional-warhead aiming.

21. In a substantially non-spinning bomb having a rate of spin which is insufficient to form imaging for high-speed accurate fuzing, a passive-infrared-imaging fuze comprising at least one set of body-fixed wide-angle optics providing forward hemisphere coverage, a multi-element detector array and a microprocessor for image and data processing, aim-point selection and fuzing.

22. A fuze as recited in claim 21 wherein said fuzing is skewed-cone fuzing.

23. A fuze as recited in claim 22, the skewed-cone having a generatrix which is the vector sum of bomb velocity, warhead velocity, and the negative of target velocity.

27. A fuze as recited in claim 21, further comprising means for miss direction prediction and directional-warhead aiming.

28. A fuze as recited in claim 22, further comprising means for miss direction prediction and directional-warhead aiming.

29. A fuze as recited in claim 23, further comprising means for miss direction prediction and directional-warhead aiming.

31. In a substantially non-spinning projectile having a rate of spin which is insufficient to form imaging for high-speed accurate fuzing, a passive-infrared-imaging fuze comprising at least one set of body-fixed wide-angle optics providing forward hemisphere coverage, a multi-element detector array and a microprocessor for image and data processing, aim-point selection and fuzing.

32. A fuze as recited in claim 31 wherein said fuzing is skewed-cone fuzing.

33. A fuze as recited in claim 32, the skewed-cone having a generatrix which is the vector sum of projectile velocity, warhead velocity, and the negative of target velocity.

35. A fuze as recited in claim 31, further comprising means for miss direction prediction and directional-warhead aiming.

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